Docket No. AUS920030412US1

CLAIMS:

What is claimed is:

1.   A method in a data processing system for providing
5 host information, the method comprising:

receiving a request for host information for a
remote computer from a requestor wherein the request
includes one of a host name or an Internet Protocol
address and is received from the requestor;

10   identifying a media access control address and a
subnet mask using the request; and

returning a response to the requestor, wherein the
response includes the media access control address and
the subnet mask.

15

2.   The method of claim 1, wherein the requestor
generates a wake-up packet using the host information and
sends the wake-up packet to the remote computer.

20 3.   The method of claim 1, wherein the media access
control address and the subnet mask are received from a
dynamic host configuration protocol server and are stored
in a data processing system for the data processing
system.

25

4.   The method of claim 1, wherein the dynamic host
configuration protocol server obtains the media access
control address and the subnet mask from when a remote
computer requests an address from the dynamic host
30 configuration protocol server.

Docket No. AUS920030412US1

5.   The method of claim 1, wherein the media access
control address and the subnet are received from a user
submitting the media access control address and the
subnet mask and are stored in a data processing system

5   for the data processing system.

6.   The method of claim 1, wherein the data processing
system is a domain name server.

10   7.   The method of claim 1, wherein the media access
control address and the subnet mask are stored record for
a name-to-address file and an address-to-name file.

8.   A data processing system for providing host

15   information, the data processing system comprising:
        receiving means for receiving a request for host
information for a remote computer from a requestor
wherein the request includes one of a host name or an
Internet Protocol address and is received from the

20   requestor;
        identifying means for identifying a media access
control address and a subnet mask using the request; and
        returning means for returning a response to the
requestor, wherein the response includes the media access

25   control address and the subnet mask.

9. The data processing system of claim 8, wherein the requestor generates a wake-up packet using the host information and sends the wake-up packet to the remote computer.

5

10. The data processing system of claim 8, wherein the media access control address and the subnet mask are received from a dynamic host configuration protocol server and are stored in a data processing system for the

10 data processing system.

11. The data processing system of claim 8, wherein the dynamic host configuration protocol server obtains the media access control address and the subnet mask from

15 when a remote computer requests an address from the dynamic host configuration protocol server.

12. The data processing system of claim 8, wherein the media access control address and the subnet are received

20 from a user submitting the media access control address and the subnet mask and are stored in a data processing system for the data processing system.

13. The data processing system of claim 8, wherein the

25 data processing system is a domain name server.

14. The data processing system of claim 8, wherein the media access control address and the subnet mask are stored record for a name-to-address file and an address-

30 to-name file.

Docket No. AUS920030412US1

15. A computer program product in a computer readable medium for providing host information, the computer program product comprising:

first instructions for receiving a request for host
5   information for a remote computer from a requestor wherein the request includes one of a host name or an Internet Protocol address and is received from the requestor;

second instructions for identifying a media access
10 control address and a subnet mask using the request; and

third instructions for returning a response to the requestor, wherein the response includes the media access control address and the subnet mask.

15 16. The computer program product of claim 15, wherein the requestor generates a wake-up packet using the host information and sends the wake-up packet to the remote computer.

20 17. The computer program product of claim 15, wherein the media access control address and the subnet mask are received from a dynamic host configuration protocol server and are stored in a data processing system for the data processing system.

25

18. The computer program product of claim 15, wherein the dynamic host configuration protocol server obtains the media access control address and the subnet mask from when a remote computer requests an address from the
30 dynamic host configuration protocol server.

Docket No. AUS920030412US1

19. The computer program product of claim 15, wherein the media access control address and the subnet are received from a user submitting the media access control address and the subnet mask and are stored in a data
5 processing system for the data processing system.

20. The computer program product of claim 15, wherein the data processing system is a domain name server.